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* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page for STN Seminar Schedule - N. America
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NEWS	3	FEB 02	Simultaneous left and right truncation (SLART) added for CERAB, COMPUAB, ELCOM, and SOLIDSTATE
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NEWS	5	FEB 06	Patent sequence location (PSL) data added to USGENE
NEWS	6	FEB 10	COMPENDEX reloaded and enhanced
NEWS	7	FEB 11	WTEXTILES reloaded and enhanced
NEWS	8	FEB 19	New patent-examiner citations in 300,000 CA/CAPLUS patent records provide insights into related prior art
NEWS	9	FEB 19	Increase the precision of your patent queries -- use terms from the IPC Thesaurus, Version 2009.01
NEWS	10	FEB 23	Several formats for image display and print options discontinued in USPATFULL and USPAT2
NEWS	11	FEB 23	MEDLINE now offers more precise author group fields and 2009 MeSH terms
NEWS	12	FEB 23	TOXCENTER updates mirror those of MEDLINE - more precise author group fields and 2009 MeSH terms
NEWS	13	FEB 23	Three million new patent records blast AEROSPACE into STN patent clusters
NEWS	14	FEB 25	USGENE enhanced with patent family and legal status display data from INPADOCDB
NEWS	15	MAR 06	INPADOCDB and INPAFAMDB enhanced with new display formats
NEWS	16	MAR 11	EPFULL backfile enhanced with additional full-text applications and grants
NEWS	17	MAR 11	ESBIOBASE reloaded and enhanced
NEWS	18	MAR 20	CAS databases on STN enhanced with new super role for nanomaterial substances
NEWS	19	MAR 23	CA/CAPLUS enhanced with more than 250,000 patent equivalents from China
NEWS	20	MAR 30	IMSPATENTS reloaded and enhanced
NEWS	21	APR 03	CAS coverage of exemplified prophetic substances enhanced
NEWS	22	APR 07	STN is raising the limits on saved answers
NEWS	23	APR 24	CA/CAPLUS now has more comprehensive patent assignee information
NEWS	24	APR 26	USPATFULL and USPAT2 enhanced with patent assignment/reassignment information
NEWS	25	APR 28	CAS patent authority coverage expanded
NEWS	26	APR 28	ENCOMPLIT/ENCOMPLIT2 search fields enhanced
NEWS	27	APR 28	Limits doubled for structure searching in CAS REGISTRY

NEWS 28 MAY 08 STN Express, Version 8.4, now available
 NEWS 29 MAY 11 STN on the Web enhanced
 NEWS 30 MAY 11 BEILSTEIN substance information now available on
 STN Easy
 NEWS 31 MAY 14 DGENE, PCTGEN and USGENE enhanced with increased
 limits for exact sequence match searches and
 introduction of free HIT display format

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
 AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 16:10:41 ON 14 MAY 2009

```
=> file reg
COST IN U.S. DOLLARS                SINCE FILE      TOTAL
                                   ENTRY      SESSION
FULL ESTIMATED COST                0.22          0.22
```

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TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

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=>Testing the current file.... screen

10/538,249

ENTER SCREEN EXPRESSION OR (END):end

=> screen 2051 AND 2127

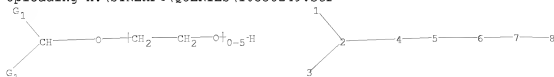
L1 SCREEN CREATED

=> screen 1838 OR 1929 OR 2026 OR 2022 OR 2016 OR 2009 OR 1992

L2 SCREEN CREATED

=>

Uploading H:\STNEXP4\QUERIES\10538249.str



chain nodes :

1 2 3 4 5 6 7 8

chain bonds :

1-2 2-3 2-4 4-5 5-6 6-7 7-8

exact/norm bonds :

1-2 2-3 2-4

exact bonds :

4-5 5-6 6-7 7-8

G1:CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS

L3 STRUCTURE UPLOADED

=> que L3 AND L1 NOT L2

L4 QUE L3 AND L1 NOT L2

=> s 14

SAMPLE SEARCH INITIATED 16:12:04 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 123 TO ITERATE

100.0% PROCESSED 123 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**

BATCH **COMPLETE**

PROJECTED ITERATIONS: 1795 TO 3125

PROJECTED ANSWERS: 3 TO 162

L5 3 SEA SSS SAM L3 AND L1 NOT L2

=> d scan

10/538,249

L5 3 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 2-Propanol, mixt. with ethanol
MF C3 H8 O . C2 H6 O
CI MXS

CM 1



CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l4 ful
FULL SEARCH INITIATED 16:12:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 2812 TO ITERATE

100.0% PROCESSED 2812 ITERATIONS
SEARCH TIME: 00.00.01

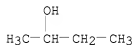
114 ANSWERS

L6 114 SEA SSS FUL L3 AND L1 NOT L2

=> d scan

L6 114 ANSWERS REGISTRY COPYRIGHT 2009 ACS on STN
IN 2-Butanol, 2-methyl-, mixt. with 2-butanol (9CI)
MF C5 H12 O . C4 H10 O
CI MXS

CM 1



CM 2



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

187.32

187.54

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FILE COVERS 1907 - 14 May 2009 VOL 150 ISS 20

FILE LAST UPDATED: 13 May 2009 (20090513/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

CAPLUS now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

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This file contains CAS Registry Numbers for easy and accurate

=> d his

(FILE 'HOME' ENTERED AT 16:10:41 ON 14 MAY 2009)

FILE 'REGISTRY' ENTERED AT 16:11:29 ON 14 MAY 2009

L1 SCREEN 2051 AND 2127

L2 SCREEN 1838 OR 1929 OR 2026 OR 2022 OR 2016 OR 2009 OR 19

L3 STRUCTURE UPLOADED

L4 QUE L3 AND L1 NOT L2

L5 3 S L4

L6 114 S L4 FUL

FILE 'CAPLUS' ENTERED AT 16:13:50 ON 14 MAY 2009

=> s l6

L7 153 L6

=> s (froth or flotation) and l7

8506 FROTH

60200 FLOTATION

L8 0 (FROTH OR FLOTATION) AND L7

=> d 17 1-153 ti

- L7 ANSWER 1 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Surface morphology and pervaporation performance of electric field enhanced multilayer membranes
- L7 ANSWER 2 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Norbornene-based cyclic polymer surface improvement materials and patterning using them by immersion photolithography
- L7 ANSWER 3 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Polymeric gel system and methods for making and using same in hydrocarbon recovery
- L7 ANSWER 4 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Transparent and electric conductive multilayer body
- L7 ANSWER 5 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Methods for the production of tungsten oxide films with electrochromic and/or gasochromic properties and the use of the layers
- L7 ANSWER 6 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Biological device for arthropod control
- L7 ANSWER 7 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Lubricant composition
- L7 ANSWER 8 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Biological device for arthropod control
- L7 ANSWER 9 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Hyperbranched polymers, their manufacture, resist compositions containing them, and manufacture of semiconductor integrated circuits using them
- L7 ANSWER 10 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Aggregation pheromone of the agave weevil, *Scyphophorus acupunctatus*
- L7 ANSWER 11 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI New crystalline forms of thrombin inhibitors and compositions thereof
- L7 ANSWER 12 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Salts of 3-[3-amino-2-(R)-hydroxypropyl]-1-(4-fluorophenyl)-8-(8-methylnaphthalen-1-ylmethyl)-1,3,8-triazaspiro[4.5]decan-4-one for treatment of conditions modulated by NOP
- L7 ANSWER 13 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Polymorphs of succinate salt of 2-[6-(3-aminopiperidin-1-yl)-3-methyl-2,4-dioxo-3,4-dihydro-2H-pyrimidin-1-ylmethyl]-4-fluorobenzonitrile as dipeptidyl peptidase inhibitors
- L7 ANSWER 14 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Process for preparation of fatty acid esters and glycerin from unrefined oils
- L7 ANSWER 15 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Odorless manufacture of acrylic polymers using mercapto compound chain transfer agents
- L7 ANSWER 16 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Titanium tetraalkoxide catalysts for transesterification of unrefined

glycerides for biodiesel manufacture

- L7 ANSWER 17 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Foamable compositions containing alcohol
- L7 ANSWER 18 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Preparation of salts of N-hydroxy-3-[4-[[[2-(2-methyl-1H-indol-3-yl)ethyl]amino]methyl]phenyl]-2E-2-propenamide
- L7 ANSWER 19 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Preparation of "caine" compounds as analgesics, anesthetics, antifoulants, averseants, irritants, and incapacitants
- L7 ANSWER 20 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Sub- and supercritical liquefaction of rice straw in the presence of ethanol-water and 2-propanol-water mixture
- L7 ANSWER 21 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Process for the preparation of lutein ester concentrate from marigold oleoresin
- L7 ANSWER 22 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI IR-absorbing vehicle glass windows flow-coated with film based on silica and indium tin oxide with improved peel-off resistance
- L7 ANSWER 23 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Lubricant composition for printing, bookbinding or paper coating machines
- L7 ANSWER 24 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Nanosilicon dot arrays with a bit pitch and a track pitch of 25 nm formed by electron-beam drawing and reactive ion etching for 1 Tbit/in.2 storage
- L7 ANSWER 25 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Chitosan/poly(tetrafluoroethylene) composite membranes using in pervaporation dehydration processes
- L7 ANSWER 26 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Foamable alcohol compositions, systems and methods of use
- L7 ANSWER 27 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Copolymerization of sodium 2-(acrylamido)-2-methylpropanesulfonate with vinylpyrrolidinone in water-isopropanol solutions
- L7 ANSWER 28 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Operation aspects of CDF tracking and vertexing detectors
- L7 ANSWER 29 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Testing antimicrobial efficiency of seven disinfectants against bacteria and fungi with surface test
- L7 ANSWER 30 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Hydrogen peroxide-initiated polymerization of isoprene in alcohol mixtures
- L7 ANSWER 31 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Swelling behavior of poly(sodium acrylate)/kaolin superabsorbent composite
- L7 ANSWER 32 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Acoustic method for the estimation of effective debye temperature of binary and ternary liquid mixtures

- L7 ANSWER 33 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Adhesive without containing emulsifier and process for preparation thereof
- L7 ANSWER 34 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Adhesive for manufacture of shoes without containing emulsifier and process for preparation thereof
- L7 ANSWER 35 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Process for the preparation of colorant from oleoresin
- L7 ANSWER 36 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Process for making and process for converting polyolefin fibers
- L7 ANSWER 37 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Anhydrous crystalline azido cytosine hemisulfate derivative
- L7 ANSWER 38 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Synthesis and biological activity of the four stereoisomers of 4-methyl-3-heptanol: Main component of the aggregation pheromone of *Scolytus amygdali*
- L7 ANSWER 39 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Process for the preparation of hindered amine-based stabilizers for polymers
- L7 ANSWER 40 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Allograft tissue purification process for cleaning bone
- L7 ANSWER 41 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Ink-jet recording media for nonaqueous pigment inks and their manufacture
- L7 ANSWER 42 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Insect signalling: Components of giant hornet alarm pheromone
- L7 ANSWER 43 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Manufacture of toner showing excellent fluidity and transferability
- L7 ANSWER 44 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Transparent, low-temperature bending fatigue-resistant laminates of saponified ethylene-vinyl acetate copolymer
- L7 ANSWER 45 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Robotic high-throughput DNA isolation and transformation for analysis of the function of genes or gene products
- L7 ANSWER 46 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI The viral inactivation assessment of the various alcohol group disinfectants
- L7 ANSWER 47 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Bactericidal activity of ETHAPLUS W for disinfection
- L7 ANSWER 48 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Pheromone-based trapping of west indian sugarcane weevil in a sugarcane plantation
- L7 ANSWER 49 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Antimicrobial compositions comprising quaternary ammonium, phenolic, and nitrogen-based heterocyclic compounds

- L7 ANSWER 50 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Process for continuous gas-phase (co)polymerization of olefins using chromium oxide catalysts and alkyl boron compound chain transfer agents
- L7 ANSWER 51 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Ink-jet ink compositions with discharge and storage stability
- L7 ANSWER 52 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Activity of male pheromone of melanesian rhinoceros beetle *Scapanes australis*
- L7 ANSWER 53 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Roach repellent composition containing δ -tetramethrin
- L7 ANSWER 54 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Discharge-stable ink-jet ink compositions
- L7 ANSWER 55 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Isolating nucleic acids by selective adsorption and desorption onto silicon dioxide
- L7 ANSWER 56 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Enantioseparation of racemic naproxen esters on four cellulose derivative chiral columns and chiral recognition mechanism
- L7 ANSWER 57 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Process for gas-phase polymerization of olefins
- L7 ANSWER 58 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Polyolefin polymerization process with smooth transition between two catalyst systems
- L7 ANSWER 59 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Pesticidal compositions containing silicon esters
- L7 ANSWER 60 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Direct separation of the enantiomers of reboxetine by liquid chromatography on different cellulose- and amylose-based chiral stationary phases
- L7 ANSWER 61 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Anchor coating materials for plastic film lamination
- L7 ANSWER 62 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Conformational and temperature effects on separation of stereoisomers of a C3,C4-substituted β -lactamic cholesterol absorption inhibitor on amylose-based chiral stationary phases
- L7 ANSWER 63 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Olefin polymerization catalyst with titanium- or aluminum-impregnated supports
- L7 ANSWER 64 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Aggregation pheromones of two geographical isolates of the new guinea sugarcane weevil, *Rhabdoscelus obscurus*
- L7 ANSWER 65 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Anhydrous ultraviolet light screening composition containing octocrylene
- L7 ANSWER 66 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN

- TI Microbiological methods for testing disinfectant efficiency on *Pseudomonas* biofilm
- L7 ANSWER 67 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Readily working water-repellent coating compositions, their manufacture and coated articles
- L7 ANSWER 68 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Polyamide- and terpene-phenolic resin-based inks for jet printer
- L7 ANSWER 69 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Results of patch testing with hydrocortisone butyrate in different vehicles
- L7 ANSWER 70 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Insect attractants for moths
- L7 ANSWER 71 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Abrasion- and oil-resistant ink-jet inkss
- L7 ANSWER 72 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Barium hexaaluminate refractories
- L7 ANSWER 73 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Gas-phase polymerization of olefins and preparation of an activated supported chromium oxide catalyst therefor
- L7 ANSWER 74 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Glutaraldehyde plus alcohol disinfectant
- L7 ANSWER 75 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Processes for quantitating phosphoglycerides in a lipid mixture and diagnostic uses therefor
- L7 ANSWER 76 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Performance evaluation of disinfectant formulations using poloxamer-hydrogel biofilm-constructs
- L7 ANSWER 77 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Ink-jet recording ink containing polyoxyalkylenes, method for use thereof, and records produced thereby with high color density and reduced feathering
- L7 ANSWER 78 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI In vitro screening for metabolic interactions among frequently occurring binary mixtures of volatile organic chemicals in Norwegian occupational atmosphere
- L7 ANSWER 79 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI The studies on gas mixtures with respect to their application at the LC detector
- L7 ANSWER 80 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cottonseed extraction with a new solvent system: isohexane and alcohol mixtures
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TI Lubricating coating compositions for top boards of copying machine
- L7 ANSWER 82 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN

- TI Environment-nonpolluting cleaning compositions with good detergency and volatility
- L7 ANSWER 83 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Azeotropic cleaning compositions with improved fat removal and drying properties and cleaning articles using them
- L7 ANSWER 84 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cleaning composition and cleaning method
- L7 ANSWER 85 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Aggregation pheromones and host kairomones of West Indian sugarcane weevil, *Metamasius hemipterus sericeus*
- L7 ANSWER 86 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Liquid crystal display panel and its manufacture
- L7 ANSWER 87 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Rub-resistant jet-printing ink and printing method
- L7 ANSWER 88 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Optimization of semiochemical-based trapping of *Metamasius hemipterus sericeus*
- L7 ANSWER 89 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Ink jet inks containing mixtures of alcohols
- L7 ANSWER 90 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of aromatic dicyanates
- L7 ANSWER 91 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Aerosol detergent compositions with low toxicity for cleaning automotive brakes
- L7 ANSWER 92 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Washing of aliphatic polyester-polyols or their compositions for maintenance of surface gloss and melt flow rate
- L7 ANSWER 93 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Aerosol compositions for agrochemicals, their manufacture, and antifoaming with them
- L7 ANSWER 94 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Biofiltration of volatile organic emissions in reference to flexographic printing processes
- L7 ANSWER 95 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cleaner compositions for automotive brakes
- L7 ANSWER 96 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI High-permeation reverse-osmosis composite membranes and interfacial polymerization for their formation
- L7 ANSWER 97 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Photoresist patterning and apparatus for same
- L7 ANSWER 98 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Noninvasive brake cleaning compositions with no toxicity or environmental pollution

- L7 ANSWER 99 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Two in-vivo protocols for testing the virucidal efficacy of handwashing and hand disinfection
- L7 ANSWER 100 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI process for making polyvinylpyrrolidone polymer having predetermined characteristics
- L7 ANSWER 101 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Polyamic acid ester photoresist composition and patterning of same
- L7 ANSWER 102 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Separation of ethanol from isopropanol by azeotropic distillation
- L7 ANSWER 103 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Separation of 2-butanol from tert-amyl alcohol by azeotropic distillation
- L7 ANSWER 104 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Solutions of saponified ethylene-vinyl acetate copolymers and their use
- L7 ANSWER 105 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Virucidal disinfectants.
- L7 ANSWER 106 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Manufacture of alkylphenol novolaks with reduced content of residual monomers
- L7 ANSWER 107 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Synergistic skin disinfectants comprising alkanols and glycerol ethers
- L7 ANSWER 108 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Method for determination of blood lipid peroxidation products
- L7 ANSWER 109 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Resolution and stability of oxazepam enantiomers
- L7 ANSWER 110 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Method of determining molecular weight of poly(ethylene oxide)
- L7 ANSWER 111 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Gas-impermeable packaging films with ethylene-vinyl alcohol copolymer layers
- L7 ANSWER 112 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Purification of plant or vegetable phosphatidylcholines from crude lecithins using carbon dioxide and alcohols as extraction solvents
- L7 ANSWER 113 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Nonpolluting detergents for removal of soldering fluxes
- L7 ANSWER 114 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Patterning of positive-working resist by rinsing after development
- L7 ANSWER 115 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Method for overall passivation of ion-sensitive field-effect transistors using field oxidation
- L7 ANSWER 116 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Method for overall passivation of ion-sensitive field-effect transistors

- L7 ANSWER 117 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Two-step process for isolating avermectins B1 and B2 from concentrated hot oils
- L7 ANSWER 118 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Gases for muon drift chambers at high energy hadron colliders
- L7 ANSWER 119 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Subcooled flow-boiling of mixtures
- L7 ANSWER 120 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Accurate three-dimensional simulation of straw chambers using slow, medium and fast gas mixtures
- L7 ANSWER 121 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Docosaheaxaenoic acid containing oil manufacture with marine dinoflagellates
- L7 ANSWER 122 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Prednisolone purification for pharmaceutical uses
- L7 ANSWER 123 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Disinfectant composition containing glutaraldehyde and alcohol mixture
- L7 ANSWER 124 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Preparation of biphenyl-4,4'-diol from 4,4'-dihalobiphenyls
- L7 ANSWER 125 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Optical resolution by column chromatography using polysaccharide derivatives as a stationary phase
- L7 ANSWER 126 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Immobilization of swine pancreatic lipase for resolution of racemic esters
- L7 ANSWER 127 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI On double layer PMMA resist systems: development rates and molecular weight distributions of commercial PMMA resists
- L7 ANSWER 128 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Hybrid emulsion spectrometer for the detection of hadronically produced heavy flavor states
- L7 ANSWER 129 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Pattern formation by positive-working electron-beam resists
- L7 ANSWER 130 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Development of resist
- L7 ANSWER 131 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Developer solutions for poly(methyl methacrylate) (PMMA) electron resist
- L7 ANSWER 132 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Developers for positive-working radiation resists
- L7 ANSWER 133 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Sterilization of containers for fruit juices or wine using aqueous solution of sulfurous acid and an alcohol as microbicide
- L7 ANSWER 134 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
TI Fast-acting antipruritic aerosols

- L7 ANSWER 135 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI purification of dihydroxynaphthalene by crystallization
- L7 ANSWER 136 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Insecticides containing amitraz
- L7 ANSWER 137 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Pheromonal blends: certain components may only convey gross information
- L7 ANSWER 138 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Adhesive primers
- L7 ANSWER 139 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI The modification of lithographic inks with Manchem aluminum compounds
- L7 ANSWER 140 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Platinum catalysts
- L7 ANSWER 141 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Separation of flavanoid aglycons and glycosides
- L7 ANSWER 142 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Composition for control of lice
- L7 ANSWER 143 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Sodium removal technology - the alcohol process
- L7 ANSWER 144 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Separation of flavonoid aglycons and glycosides from tannins and other impurities
- L7 ANSWER 145 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Acute toxicity of 102 pesticides and miscellaneous substances to fish
- L7 ANSWER 146 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Prediction of flash points for solvent mixtures
- L7 ANSWER 147 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Gas chromatographic determination of thermodynamic properties of polymer solutions. II. Semicrystalline polymer systems
- L7 ANSWER 148 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Use of some organometallic compounds by industry for producing varnish and printing inks
- L7 ANSWER 149 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Use of some organometallic compounds in the paint, varnish, and ink industries
- L7 ANSWER 150 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI 1,1'-(Alkylene)bis(5-arylbiquanides)
- L7 ANSWER 151 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Methyl isopropyl ketone and valerone from isopropanol
- L7 ANSWER 152 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Now separate by membrane permeation
- L7 ANSWER 153 OF 153 CAPLUS COPYRIGHT 2009 ACS on STN

10/538,249

TI Separation of diisopropylamine from amination mixtures

=> d his

(FILE 'HOME' ENTERED AT 16:10:41 ON 14 MAY 2009)

FILE 'REGISTRY' ENTERED AT 16:11:29 ON 14 MAY 2009

L1 SCREEN 2051 AND 2127
L2 SCREEN 1838 OR 1929 OR 2026 OR 2022 OR 2016 OR 2009 OR 19
L3 STRUCTURE UPLOADED
L4 QUE L3 AND L1 NOT L2
L5 3 S L4
L6 114 S L4 FUL

FILE 'CAPLUS' ENTERED AT 16:13:50 ON 14 MAY 2009

L7 153 S L6
E FROTH+ALL/CT
L8 0 S (FROTH OR FLOTATION) AND L7

=> s froth flotation and coal

8506 FROTH
60200 FLOTATION
3692 FROTH FLOTATION
(FROTH(W)FLOTATION)

L9 247765 COAL
801 FROTH FLOTATION AND COAL

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	82.84	270.38

FILE 'STNGUIDE' ENTERED AT 16:29:46 ON 14 MAY 2009

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: May 11, 2009 (20090511/UP).

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	270.80

FILE 'REGISTRY' ENTERED AT 16:33:31 ON 14 MAY 2009

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Property values tagged with IC are from the ZIC/VINITI data file
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STRUCTURE FILE UPDATES: 13 MAY 2009 HIGHEST RN 1146612-21-6
DICTIONARY FILE UPDATES: 13 MAY 2009 HIGHEST RN 1146612-21-6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH January 9, 2009.

10/538,249

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stdoc/properties.html>

=>Testing the current file.... screen

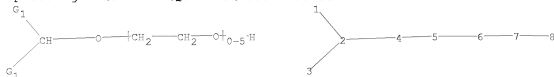
ENTER SCREEN EXPRESSION OR (END):end

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1929 OR 1838

L10 SCREEN CREATED

=>

Uploading H:\STNEXP4\QUERIES\10538249a.str



chain nodes :

1 2 3 4 5 6 7 8

chain bonds :

1-2 2-3 2-4 4-5 5-6 6-7 7-8

exact/norm bonds :

1-2 2-3 2-4

exact bonds :

4-5 5-6 6-7 7-8

G1:CH3,Et,n-Pr,i-Pr,n-Bu,i-Bu,s-Bu

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS

L11 STRUCTURE UPLOADED

=> que L11 NOT L10

L12 QUE L11 NOT L10

=> s l12

SAMPLE SEARCH INITIATED 16:33:59 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 19287 TO ITERATE

10.4% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

6 ANSWERS

10/538,249

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 377423 TO 394057
PROJECTED ANSWERS: 701 TO 1613

L13 6 SEA SSS SAM L11 NOT L10

=> s l12 ful
FULL SEARCH INITIATED 16:34:06 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 385466 TO ITERATE

100.0% PROCESSED 385466 ITERATIONS 1367 ANSWERS
SEARCH TIME: 00.00.02

L14 1367 SEA SSS FUL L11 NOT L10

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 185.88 456.68

FILE 'CAPLUS' ENTERED AT 16:34:18 ON 14 MAY 2009
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FILE COVERS 1907 - 14 May 2009 VOL 150 ISS 20
FILE LAST UPDATED: 13 May 2009 (20090513/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

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This file contains CAS Registry Numbers for easy and accurate

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(FILE 'HOME' ENTERED AT 16:10:41 ON 14 MAY 2009)

FILE 'REGISTRY' ENTERED AT 16:11:29 ON 14 MAY 2009

L1 SCREEN 2051 AND 2127
L2 SCREEN 1838 OR 1929 OR 2026 OR 2022 OR 2016 OR 2009 OR 19
L3 STRUCTURE UPLOADED
L4 QUE L3 AND L1 NOT L2

L5 3 S L4
L6 114 S L4 FUL

FILE 'CAPLUS' ENTERED AT 16:13:50 ON 14 MAY 2009
L7 153 S L6
E FROTH+ALL/CT
L8 0 S (FROTH OR FLOTATION) AND L7
E FROTH FLOTATION+ALL/CT
L9 801 S FROTH FLOTATION AND COAL

FILE 'STINGUIDE' ENTERED AT 16:29:46 ON 14 MAY 2009

FILE 'REGISTRY' ENTERED AT 16:33:31 ON 14 MAY 2009
L10 SCREEN 1992 OR 2016 OR 2021 OR 2026 OR 1929 OR 1838
L11 STRUCTURE UPLOADED
L12 QUE L11 NOT L10
L13 6 S L12
L14 1367 S L12 FUL

FILE 'CAPLUS' ENTERED AT 16:34:18 ON 14 MAY 2009

=> s l9 and l14
99463 L14
L15 56 L9 AND L14

=> d 1-56 ti

L15 ANSWER 1 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
TI Well service compositions for consolidation of particulates in
subterranean coal seams, especially for recovery of coal seam natural gas

L15 ANSWER 2 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
TI Normal and iso paraffins with low content of aromatics, sulphur and
nitrogen as collector for froth flotation

L15 ANSWER 3 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
TI Method and apparatus for froth washing in flotation

L15 ANSWER 4 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
TI Separation of carbon from fly ash by using froth flotation

L15 ANSWER 5 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
TI An improved process for the desulphurisation of coal

L15 ANSWER 6 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
TI Coal Froth Flotation: Effects of Reagent Adsorption on the Froth Structure

L15 ANSWER 7 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
TI Fundamental properties of flotation frothers and their effect on flotation

L15 ANSWER 8 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
TI Off-line image analysis for froth flotation of coal

L15 ANSWER 9 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
TI The effect of reagents and reagent mixtures on froth flotation of
coal fines

L15 ANSWER 10 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
TI Method and apparatus for improving froth flotation of coal in a
Jameson cell

- L15 ANSWER 11 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Cleaning of Egyptian coal by using column flotation to minimize the environmental pollution
- L15 ANSWER 12 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI The use of short chain volatile fatty acids in fine coal preparation
- L15 ANSWER 13 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI The effect of chemical reagents on lignite flotation
- L15 ANSWER 14 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Removal of unburned-carbon from fly-ash of bituminous coal by froth flotation
- L15 ANSWER 15 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Bubble size distribution in air-sparged hydrocyclone
- L15 ANSWER 16 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Improvements in direct coal liquefaction using coal fractions obtained by froth flotation
- L15 ANSWER 17 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Recovery of anthracite from coal preparation-plant tailings
- L15 ANSWER 18 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Flotation test as a method for studying coal weathering
- L15 ANSWER 19 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Method for simultaneous use of a single additive for coal flotation, dewatering, and reconstitution
- L15 ANSWER 20 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Role of collector and frother, and of hydrophobicity/oleophilicity of pyrite on the separation of pyrite from coal by flotation
- L15 ANSWER 21 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Flocculant for fines in froth flotation of coals
- L15 ANSWER 22 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Vinylpyrrolidone for polymeric flocculant for fines in froth flotation of coals
- L15 ANSWER 23 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI The influence of reagent dosage on the floatability of pyrite during coal flotation
- L15 ANSWER 24 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Trace elements removal during coal cleaning by froth flotation
- L15 ANSWER 25 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Frother effects on single bubble motion in a water column
- L15 ANSWER 26 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI The use of pyrite depressants to reduce the sulfur content of Upper Freeport seam coal
- L15 ANSWER 27 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Fossil resin flotation from coal by selective coagulation and depression of coal

- L15 ANSWER 28 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Selective flotation of fossil resin from Wasatch Plateau high-volatile bituminous coal
- L15 ANSWER 29 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Method for the froth flotation of coal using epoxide conditioner
- L15 ANSWER 30 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Method for froth flotation of coal
- L15 ANSWER 31 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Staged flotation of fine coal and the effects of mineral size and distribution
- L15 ANSWER 32 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Evaluation of coal-mineral association and coal cleanliness by using SEM-based automated image analysis
- L15 ANSWER 33 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Conditioner for flotation of coal
- L15 ANSWER 34 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Selective resin flotation from coal by controlled oxidation
- L15 ANSWER 35 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Recovering coal fines by froth flotation with additives
- L15 ANSWER 36 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Manufacture of coal-water slurries
- L15 ANSWER 37 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Method and apparatus for separating carbonaceous compounds from particulate coal containing inorganic solids
- L15 ANSWER 38 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Flotation reagent and method for recovering carbon values from carbonaceous materials
- L15 ANSWER 39 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Deashed high solid concentration coal-water slurry
- L15 ANSWER 40 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Beneficiating coal employing low amounts of additives
- L15 ANSWER 41 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Control of froth flotation separation
- L15 ANSWER 42 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Polyorganosiloxane collectors in the beneficiation of fine coal by froth flotation
- L15 ANSWER 43 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Coal cleaning by froth flotation
- L15 ANSWER 44 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Coal cleaning by flotation
- L15 ANSWER 45 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Selection of reagents for optimization of fine coal flotation

L15 ANSWER 46 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Fine coal flotation with alcohol: dialkyl sulfosuccinate frothing systems

L15 ANSWER 47 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Concentrating the exinite group macerals from coal by froth flotation

L15 ANSWER 48 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Interfacial phenomena in coal flotation systems

L15 ANSWER 49 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Froth promoter for coal flotation

L15 ANSWER 50 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI New developments in [froth] flotation in the USA

L15 ANSWER 51 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Floatability of coal and pyrite

L15 ANSWER 52 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Desulfurization of coal by froth flotation

L15 ANSWER 53 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Flotation of pyrite from coal

L15 ANSWER 54 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Flotation of pyrite from coal. Pilot plant study

L15 ANSWER 55 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Reclaiming magnetite in dense-medium circuits by froth flotation

L15 ANSWER 56 OF 56 CAPLUS COPYRIGHT 2009 ACS on STN
 TI Froth flotation of coal with methylisobutylcarbinol

=> d his

(FILE 'HOME' ENTERED AT 16:10:41 ON 14 MAY 2009)

FILE 'REGISTRY' ENTERED AT 16:11:29 ON 14 MAY 2009

L1 SCREEN 2051 AND 2127
 L2 SCREEN 1838 OR 1929 OR 2026 OR 2022 OR 2016 OR 2009 OR 19
 L3 STRUCTURE UPLOADED
 L4 QUE L3 AND L1 NOT L2
 L5 3 S L4
 L6 114 S L4 FUL

FILE 'CAPLUS' ENTERED AT 16:13:50 ON 14 MAY 2009

L7 153 S L6
 E FROTH+ALL/CT
 L8 0 S (FROTH OR FLOTATION) AND L7
 E FROTH FLOTATION+ALL/CT
 L9 801 S FROTH FLOTATION AND COAL

FILE 'STNGUIDE' ENTERED AT 16:29:46 ON 14 MAY 2009

FILE 'REGISTRY' ENTERED AT 16:33:31 ON 14 MAY 2009

L10 SCREEN 1992 OR 2016 OR 2021 OR 2026 OR 1929 OR 1838
 L11 STRUCTURE UPLOADED
 L12 QUE L11 NOT L10

10/538,249

L13 6 S L12
L14 1367 S L12 FUL

FILE 'CAPLUS' ENTERED AT 16:34:18 ON 14 MAY 2009
L15 56 S L9 AND L14

=> s l15 and 1700-2002/py
22984093 1700-2002/PY
L16 47 L15 AND 1700-2002/PY

=> d 1-47 bib fhitstr

L16 ANSWER 1 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2003:491100 CAPLUS
DN 139:71421
TI Method and apparatus for improving froth flotation of coal in a
Jameson cell
IN Pokrajacic, Zeljka; Manlapig, Emmanuel Salvador Viana; Harbort, Gregory J.;
Smith, Stephen; Jameson, Graeme John
PA M.I.M. Holdings Limited, Australia
SO PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003051504	A1	20030626	WO 2002-AU1701	20021217
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	AU 2002100543	B4	20020926	AU 2002-100543	20020702 <--
	AU 2002100543	A4	20020926		
	CA 2470662	A1	20030626	CA 2002-2470662	20021217
	AU 2002347206	A1	20030630	AU 2002-347206	20021217
	AU 2002347206	B2	20081023		
	CN 1617759	A	20050518	CN 2002-827710	20021217
	ZA 2004004918	A	20050622	ZA 2004-4918	20040622
	IN 2004DN01825	A	20070406	IN 2004-DN1825	20040625
	US 20050121370	A1	20050609	US 2005-498877	20050210
PRAI	AU 2001-9495	A	20011217		
	WO 2002-AU1701	W	20021217		
IT	108-11-2, MIBC				
	RL: TEM (Technical or engineered material use); USES (Uses) (method and apparatus for improving froth flotation of coal in a Jameson cell)				
RN	108-11-2 CAPLUS				
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				



RE.CNT 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2002:237867 CAPLUS
DN 137:8398
TI Cleaning of Egyptian coal by using column flotation to minimize the
environmental pollution
AU Abdel Khalek, M. A.
CS Central Metallurgical Research and Development Institute, CMRDI, Cairo,
Egypt
SO Afinidad (2002), 59(497), 34-38
CODEN: AFINAE; ISSN: 0001-9704
PB Asociacion de Quimicos del Instituto Quimico de Sarria
DT Journal
LA English
IT 108-11-2, Methyl isobutyl Carbinol
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical
process); PYP (Physical process); PROC (Process); USES (Uses)
(frother; cleaning of Egyptian coal by using column flotation
to minimize environmental pollution)
RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 3 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2002:130489 CAPLUS
DN 137:35307
TI The use of short chain volatile fatty acids in fine coal preparation
AU Denby, B.; Elverson, C.; Hal, S.
CS School of Chemical, Environmental and Mining Engineering, University of
Nottingham, Nottingham, NG7 2RD, UK
SO Fuel (2002), 81(5), 595-603
CODEN: FUELAC; ISSN: 0016-2361
PB Elsevier Science Ltd.
DT Journal
LA English
IT 108-11-2, Methyl isobutyl carbinol
RL: NUU (Other use, unclassified); USES (Uses)
(frother; use of short chain volatile fatty acids in fine coal
preparation)
RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 4 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:137606 CAPLUS
DN 134:165431
TI The effect of chemical reagents on lignite flotation
AU Vamvuka, D.; Agridiotis, V.
CS Department of Mineral Resources Engineering, Technical University of
Crete, Hania, 73100, Greece
SO International Journal of Mineral Processing (2001), 61(3), 209-224
CODEN: IJMPBL; ISSN: 0301-7516
PB Elsevier Science B.V.
DT Journal
LA English
IT 108-11-2, MIBC
RL: NUU (Other use, unclassified); USES (Uses)
(frothers; effect of chemical reagents on lignite flotation)
RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 5 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1997:451402 CAPLUS
DN 127:123697
OREF 127:23821a,23824a
TI Removal of unburned-carbon from fly-ash of bituminous coal by froth
flotation
AU Son, Sung-Geun; Kim, Jung-Duk; Park, Byung-Wook
CS Energy and Environment Research Dep., Korea Inst. Energy Research, Korea
Fly-Ash Cement Co., Ltd., S. Korea
SO Chawon Risaikring (1996), 5(3), 44-49
CODEN: CHRSPD; ISSN: 1225-8326
PB Korean Institute of Resources Recycling
DT Journal
LA Korean
IT 108-11-2, Mibc
RL: TEM (Technical or engineered material use); USES (Uses)
(frother; removal of unburned-carbon from fly-ash of bituminous
coal by froth flotation)
RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 6 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1996:714273 CAPLUS
 DN 126:9866
 OREF 126:2115a,2118a
 TI Bubble size distribution in air-sparged hydrocyclone
 AU Hupka, Jan; Bokotko, Romuald P.; Lelinski, Dariusz; Miller, Jan D.
 CS Department Chemical Technology, Technical University Gdansk, Gdansk, Pol.
 SO Recent Advances in Coal Processing (1996), 1(New Trends in Coal
 Preparation Technologies and Equipment), 801-804, 811-812
 CODEN: RACPF8; ISSN: 1023-6201
 PB Gordon & Breach
 DT Journal
 LA English
 IT 108-11-2, Mibc
 RL: NUU (Other use, unclassified); USES (Uses)
 (frother; size distribution and average size of bubbles in coal
 froth flotation in high-capacity air-sparged
 hydrocyclone)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 7 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1996:316091 CAPLUS
 DN 124:347835
 OREF 124:64505a,64508a
 TI Improvements in direct coal liquefaction using coal fractions obtained
 by froth flotation
 AU Barraza, J.; Cloke, M.; Belghazi, A.
 CS Department Chemical Engineering, University Nottingham, Nottingham, NG7
 2RD, UK
 SO IChemE Research Event, European Conference for Young Researchers in
 Chemical Engineering, 2nd, Leeds, U. K., Apr. 2-3, 1996 (1996), Volume
 1, 512-514 Publisher: Institution of Chemical Engineers, Rugby, UK.
 CODEN: 62UFAZ
 DT Conference
 LA English
 IT 108-11-2, Methyl isobutyl carbinol
 RL: NUU (Other use, unclassified); USES (Uses)
 (frother; in recovery and use of enriched liptinite-vitrinite
 coal fractions in direct coal liquefaction in
 hydrogenated anthracene oil)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 8 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1995:818203 CAPLUS
 DN 123:204015
 OREF 123:36259a,36262a
 TI Recovery of anthracite from coal preparation-plant tailings
 AU Klima, M. S.; Chander, S.; Subbarayan, S.
 CS Mineral Processing Section, Pennsylvania State Univ., University Park, PA, USA
 SO Minerals & Metallurgical Processing (1995), 12(3), 149-56
 CODEN: MMPRE8; ISSN: 0747-9182
 PB Society for Mining, Metallurgy, and Exploration
 DT Journal
 LA English
 IT 108-11-2, Methyl isobutyl carbinol
 RL: MOA (Modifier or additive use); USES (Uses)
 (collector; in anthracite recovery from coal preparation-plant tailings by flotation)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 9 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1995:596467 CAPLUS
 DN 123:87900
 OREF 123:15633a,15636a
 TI Flotation test as a method for studying coal weathering
 AU Sarikaya, Musa
 CS Department of Mining Engineering, Inoenu University, Malatya, 44069, Turk.
 SO International Journal of Mineral Processing (1995), 43(1-2), 31-5
 CODEN: IJMPBL; ISSN: 0301-7516
 PB Elsevier
 DT Journal
 LA English
 IT 108-11-2, Methyl isobutyl carbinol
 RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PROC (Process); USES (Uses)
 (conditioner-frother; froth flotation of coal as testing method for evaluation of weathering and oxidation)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 10 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1995:354579 CAPLUS
 DN 123:37025
 OREF 123:6717a,6720a
 TI Method for simultaneous use of a single additive for coal flotation,
 dewatering, and reconstitution
 IN Wen, Wu Wey; Gray, McMahan L.; Champagne, Kenneth J.
 PA United States Dept. of Energy, USA
 SO U.S., 8 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5379902	A	19950110	US 1993-149270	19931109 <--
	US 149270	A0	19960901		
PRAI	US 1993-149270		19931109		
IT	108-11-2, Methyl isobutyl carbinol				
	RL: NUU (Other use, unclassified); USES (Uses)				
	(simultaneous use of a single additive for coal flotation, dewatering, and reconstitution)				
RN	108-11-2 CAPLUS				
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				



RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 11 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1994:513029 CAPLUS
 DN 121:113029
 OREF 121:20341a,20344a
 TI Role of collector and frother, and of hydrophobicity/oleophilicity of
 pyrite on the separation of pyrite from coal by flotation
 AU Liu, D.; Somasundaran, P.
 CS Henry Krumb School of Mines, Columbia University, New York, NY, 10027, USA
 SO International Journal of Mineral Processing (1994), 41(3-4), 227-38
 CODEN: IJMPBL; ISSN: 0301-7516
 DT Journal
 LA English
 IT 108-11-2, Methyl isobutyl carbinol
 RL: REM (Removal or disposal); PROC (Process)
 (frother, for coal flotation with dodecane, pyrite
 hydrophilicity-hydrophobicity in presence of)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 12 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1993:216321 CAPLUS
 DN 118:216321
 OREF 118:37245a,37248a
 TI Flocculant for fines in froth flotation of coals
 IN Barwise, Christopher Hugh; Wilson, John
 PA Fospur Ltd., UK
 SO Brit. UK Pat. Appl., 21 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2254021	A	19920930	GB 1992-6305	19920323 <--
	GB 2254021	B	19940713		
	AU 9213190	A	19921001	AU 1992-13190	19920325 <--
	AU 646329	B2	19940217		
	CA 2064357	A1	19920929	CA 1992-2064357	19920327 <--
PRAI	GB 1991-6746	A	19910328		
IT	108-11-2P, Methylisobutylcarbinol				
	RL: PREP (Preparation); USES (Uses)				
	(frother for flotation of coal and metal fines, flocculant in)				
RN	108-11-2 CAPLUS				
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				



L16 ANSWER 13 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1993:150815 CAPLUS
 DN 118:150815
 OREF 118:25863a,25866a
 TI Vinylpyrrolidone for polymeric flocculant for fines in froth flotation of coals
 IN Barwise, Christopher Hugh; Wilson, John
 PA Fospur Ltd., UK
 SO Brit. UK Pat. Appl., 19 pp.
 CODEN: BAXXDU
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2254020	A	19920930	GB 1992-6238	19920323 <--
	GB 2254020	B	19941005		
	AU 9213191	A	19921001	AU 1992-13191	19920325 <--
	AU 648649	B2	19940428		
	US 5217604	A	19930608	US 1992-857408	19920325 <--
	CA 2064383	A1	19920929	CA 1992-2064383	19920327 <--
	US 5304317	A	19940419	US 1992-979918	19921123 <--
PRAI	GB 1991-6747	A	19910328		
	US 1992-857408	A3	19920325		

IT 108-11-2, Methylisobutylcarbinol
 RL: PROC (Process)
 (froth flotation flocculant containing, for treatment
 of coal or metal fines)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)

OH

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L16 ANSWER 14 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1993:62861 CAPLUS
 DN 118:62861
 OREF 118:11173a,11176a
 TI The influence of reagent dosage on the floatability of pyrite during
 coal flotation
 AU Bonner, C. M.; Aplan, F. F.
 CS Goulds Pump, Inc., Ashland, PA, 17921, USA
 SO Separation Science and Technology (1993), 28(1-3), 747-64
 CODEN: SSTEDS; ISSN: 0149-6395
 DT Journal
 LA English
 IT 108-11-2, Mibc
 RL: PROC (Process)
 (frother, coal flotation in presence of, for pyrite removal,
 dosage effect on)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)

OH

Me-CH-Bu-i

L16 ANSWER 15 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1992:654620 CAPLUS
 DN 117:254620
 OREF 117:44003a,44006a
 TI Trace elements removal during coal cleaning by froth flotation
 AU Martinez-Tarazona, Maria Rosa; Garcia, Ana B.
 CS Inst. Nac. Carbon, CSIC, Oviedo, 33080, Spain
 SO Elem. Anal. Coal Its By-Prod., Int. Conf. Proc., 2nd (1992), Meeting
 Date 1991, 295-8. Editor(s): Vourvopoulos, George. Publisher: World Sci.,
 Singapore, Singapore.
 CODEN: 58IJAI
 DT Conference
 LA English
 IT 108-11-2, Methyl isobutyl carbinol
 RL: PROC (Process)
 (frother, for coal flotation)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 16 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1992:237968 CAPLUS
 DN 116:237968
 OREF 116:40305a,40308a
 TI Frother effects on single bubble motion in a water column
 AU Zhou, Z. A.; Egiebor, N. O.; Plitt, L. R.
 CS Dep. Min., Met. Pet. Eng., Univ. Alberta, Edmonton, AB, T6G 2G6, Can.
 SO Canadian Metallurgical Quarterly (1992), 31(1), 11-16
 CODEN: CAMQAU; ISSN: 0008-4433
 DT Journal
 LA English
 IT 108-11-2, Methyl isobutyl carbinol
 RL: USES (Uses)
 (frother, in coal and ore flotation, bubble velocity in
 relation to)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 17 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1991:146649 CAPLUS
 DN 114:146649
 OREF 114:24831a,24834a
 TI The use of pyrite depressants to reduce the sulfur content of Upper
 Freeport seam coal
 AU Arnold, B. J.; Aplan, F. F.
 CS Coal Qual. Dev. Cent., EPRI, Homer City, PA, 15748, USA
 SO Coal Science and Technology (1990), 16(Process. Util. High-Sulfur Coals
 3), 171-85
 CODEN: CSTYEF; ISSN: 0167-9449
 DT Journal
 LA English
 IT 108-11-2, Methyl isobutyl carbinol
 RL: USES (Uses)
 (frothers, in coal flotation, pyrite depressants evaluation
 in relation to)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 18 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1990:182774 CAPLUS

10/538,249

DN 112:182774
OREF 112:30869a,30872a
TI Fossil resin flotation from coal by selective coagulation and depression
of coal
IN Miller, Jan D.; Yu, Qiang; Yi, Ye
PA University of Utah, USA
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4904373	A	19900227	US 1989-333606	19890404 <--
	CA 2009936	A1	19901004	CA 1990-2009936	19900213 <--
	AU 9049800	A	19901011	AU 1990-49800	19900215 <--
	AU 615870	B2	19911010		
PRAI	US 1989-333606	A	19890404		
IT	108-11-2, Methylisobutyl carbinol				
	RL: USES (Uses)				
	(frothing agents, for coal flotation, in resin separation)				
RN	108-11-2 CAPLUS				
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				



RE.CNT 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 19 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1989:537236 CAPLUS
DN 111:137236
OREF 111:22941a,22944a
TI Selective flotation of fossil resin from Wasatch Plateau high-volatile
bituminous coal
AU Miller, J. D.; Ye, Y.
CS Dep. Metall. Metall. Eng., Univ. Utah, Salt Lake City, UT, USA
SO Minerals & Metallurgical Processing (1989), 6(2), 87-93
CODEN: MMPRE8; ISSN: 0747-9182
DT Journal
LA English
IT 108-11-2, Methyl isobutyl carbinol
RL: USES (Uses)
(frothing agent, in coal flotation, for fossil resin
recovery)
RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 20 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1989:118118 CAPLUS
 DN 110:118118
 OREF 110:19451a,19454a
 TI Method for the froth flotation of coal using epoxide conditioner
 IN Hansen, Robert D.; Klimpel, Richard R.
 PA Dow Chemical Co., USA
 SO Eur. Pat. Appl., 9 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 290284	A2	19881109	EP 1988-304145	19880506 <--
	EP 290284	A3	19891018		
	R: DE, ES, GB				
	US 4820406	A	19890411	US 1987-46357	19870506 <--
	WO 8808754	A1	19881117	WO 1988-US1400	19880504 <--
	W: AU, BR, SU				
	AU 8817824	A	19881206	AU 1988-17824	19880504 <--
	BR 8807495	A	19900327	BR 1988-7495	19880504 <--
	ZA 8803224	A	19900131	ZA 1988-3224	19880505 <--
	CN 88102555	A	19881116	CN 1988-102555	19880506 <--
PRAI	US 1987-46357	A	19870506		
	WO 1988-US1400	A	19880504		
OS	MARPAT 110:118118				
IT	108-11-2, Methyl isobutyl carbinol				
	RL: USES (Uses)				
	(frother, with epoxide conditioners, for coal froth flotation)				
RN	108-11-2 CAPLUS				
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				

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L16 ANSWER 21 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1989:10921 CAPLUS
 DN 110:10921
 OREF 110:1913a,1916a
 TI Method for froth flotation of coal
 IN Hansen, Robert D.; Klimpel, Richard R.
 PA Dow Chemical Co., USA
 SO U.S., 5 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4770767	A	19880913	US 1987-46351	19870506 <--
	CA 1313277	C	19930126	CA 1988-565665	19880502 <--
	WO 8808753	A1	19881117	WO 1988-US1399	19880504 <--
	W: AU, BR, SU				
	AU 8817263	A	19881206	AU 1988-17263	19880504 <--
	AU 602584	B2	19901018		

BR 8807493	A	19900327	BR 1988-7493	19880504 <--
ZA 8803225	A	19900131	ZA 1988-3225	19880505 <--
EP 290283	A2	19881109	EP 1988-304144	19880506 <--
EP 290283	A3	19891018		
EP 290283	B1	19930526		
R: DE, ES, GB				
CN 88102559	A	19881116	CN 1988-102559	19880506 <--
CN 1013928	B	19910918		
PL 153327	B1	19910430	PL 1988-272293	19880506 <--
PRAI US 1987-46351	A	19870506		
WO 1988-US1399	A	19880404		
OS MARPAT 110:10921				
IT 108-11-2, Methyl isobutyl carbinol				
RL: USES (Uses)				
(frother, for coal flotation, with ether as conditioner)				
RN 108-11-2 CAPLUS				
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)				



RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 22 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1988:513185 CAPLUS
DN 109:113185
OREF 109:18829a,18832a
TI Staged flotation of fine coal and the effects of mineral size and distribution
AU Tsai, Shirley C.
CS Dep. Chem. Eng., California State Univ., Long Beach, CA, 90840, USA
SO Industrial & Engineering Chemistry Research (1988), 27(9), 1669-74
CODEN: IECRED; ISSN: 0888-5885
DT Journal
LA English
IT 108-11-2, Methylisobutylcarbinol
RL: USES (Uses)
(staged flotation agents, for coal, particle size in relation to)
RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 23 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1988:409136 CAPLUS
DN 109:9136
OREF 109:1641a,1644a
TI Evaluation of coal-mineral association and coal cleanability by using SEM-based automated image analysis

10/538,249

AU Straszheim, W. E.; Younkin, K. A.; Markuszewski, R.; Smit, F. J.
CS Ames Lab., Iowa State Univ., Ames, IA, 50011, USA
SO Preprints of Papers - American Chemical Society, Division of Fuel
Chemistry (1988), 33(2), 64-72
CODEN: ACFPAI; ISSN: 0569-3772
DT Journal
LA English
IT 108-11-2P
RL: PREP (Preparation)
(froth flotation of coal by, ash content
in relation to)
RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 24 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1988:189736 CAPLUS
DN 108:189736
OREF 108:31147a,31150a
TI Conditioner for flotation of coal
IN Nimerick, Kenneth H.
PA Dow Chemical Co., USA
SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4732669	A	19880322	US 1986-888319	19860721 <--
PRAI	US 1986-888319		19860721		
IT	108-11-2, Methyl isobutyl carbinol				
	RL: USES (Uses)				
	(frother, for deashing of coal in froth flotation)				
RN	108-11-2 CAPLUS				
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 25 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1988:134808 CAPLUS
DN 108:134808
OREF 108:22081a,22084a
TI Selective resin flotation from coal by controlled oxidation
IN Miller, Jan D.; Yi, Ye
PA University of Utah, USA

10/538,249

SO U.S., 6 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4724071	A	19880209	US 1986-920125	19861017 <--
PRAI	US 1986-920125		19861017		
IT	108-11-2, Methylisobutyl carbinol				
	RL: USES (Uses)				
	(frothing agent, in coal flotation, for separation of resins, by controlled ozone oxidation)				
RN	108-11-2 CAPLUS				
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				

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RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 26 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1988:78579 CAPLUS
DN 108:78579
OREF 108:12957a,12960a
TI Recovering coal fines by froth flotation with additives
IN Brookes, Gerald Frederick; Spencer, Lynne
PA Fospur Ltd., UK
SO Eur. Pat. Appl., 11 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 246105	A2	19871119	EP 1987-304307	19870514 <--
	EP 246105	A3	19890405		
	EP 246105	B1	19920318		
	R: BE, DE, ES, FR, IT				
	GB 2190310	A	19871118	GB 1987-11401	19870514 <--
	GB 2190310	B	19901017		
	ES 2040251	T3	19931016	ES 1987-304307	19870514 <--
	US 4859318	A	19890822	US 1987-109036	19871016 <--
	US 4857221	A	19890815	US 1988-231675	19880812 <--
	GB 2225260	A	19900530	GB 1989-24001	19891025 <--
	GB 2225260	B	19900829		
PRAI	GB 1986-11747	A	19860514		
	GB 1987-11401	A3	19870514		
	US 1987-109036	A1	19871016		
IT	108-11-2, Methyl isobutyl carbinol				
	RL: USES (Uses)				
	(frother, additive containing, for recovery of coal fines, by flotation)				
RN	108-11-2 CAPLUS				
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				



L16 ANSWER 27 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1988:40985 CAPLUS

DN 108:40985

OREF 108:6830h,6831a

TI Manufacture of coal-water slurries

IN Kuwabara, Takashi; Ito, Masazumi

PA Sumitomo Heavy Industries, Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 62225591	A	19871003	JP 1986-69315	19860327 <--
PRAI	JP 1986-69315		19860327		
IT	108-11-2, MIBC				
	RL: USES (Uses)				
	(coal slurry froth flotation with, for ash removal)				
RN	108-11-2 CAPLUS				
CN	2-Pentanol, 4-methyl-		(CA INDEX NAME)		



L16 ANSWER 28 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1987:141036 CAPLUS

DN 106:141036

OREF 106:22987a,22990a

TI Method and apparatus for separating carbonaceous compounds from particulate coal containing inorganic solids

IN Capes, C. Edward; Coleman, Richard D.; Croteau, Serge; Thayer, William L.

PA Canadian Patents and Development Ltd., Can.

SO Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 204462	A2	19861210	EP 1986-303848	19860521 <--
	EP 204462	A3	19890405		
	R: DE, FR, GB, IT				
	CA 1318730	C	19930601	CA 1985-482843	19850530 <--
	AU 8657654	A	19861204	AU 1986-57654	19860521 <--
	AU 594340	B2	19900308		
	CN 86103632	A	19861217	CN 1986-103632	19860530 <--
	CN 1006900	B	19900221		

JP 61293566 A 19861224 JP 1986-123863 19860530 <--
 JP 04015021 B 19920316
 US 4998624 A 19910312 US 1989-437763 19891116 <--
 PRAI CA 1985-482843 A 19850530
 US 1986-865662 B1 19860522
 IT 108-11-2, Methyl isobutyl carbinol
 RL: USES (Uses)
 (frothing agent, for coal agglomeration-deashing)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 29 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1987:20947 CAPLUS
 DN 106:20947
 OREF 106:3557a,3560a
 TI Flotation reagent and method for recovering carbon values from
 carbonaceous materials
 IN Menschaert, Marc; Panou, Georges
 PA Ciments Portland Liegeois, Belg.
 SO Eur. Pat. Appl., 11 pp.
 CODEN: EPXXDW
 DT Patent
 LA French
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 185640	A2	19860625	EP 1985-870076	19850529 <--
EP 185640	A3	19860910		
R: BE, DE, FR, GB, LU, NL				
PRAI LU 1984-85689	A	19841218		
OS MARPAT 106:20947				
IT 108-11-2, Methylisobutylcarbinol				
RL: USES (Uses)				
(flotation agents containing, for coal or oil shale)				
RN 108-11-2 CAPLUS				
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)				



L16 ANSWER 30 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1986:556076 CAPLUS
 DN 105:156076
 OREF 105:25127a,25130a
 TI Deashed high solid concentration coal-water slurry
 IN Ogawa, Takayuki; Ito, Hideaki; Kimura, Naokazu; Ito, Hayami; Tatsumi,
 Shuhei; Takao, Shoichi; Suzuki, Nitao; Watanabe, Takashi; Shinao, Kunizo;
 et al.
 PA Electric Power Development Co., Ltd., Japan; Kawasaki Heavy Industries,

Ltd.; Sumitomo Heavy Industries, Ltd.
 SO Eur. Pat. Appl., 27 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 183479	A2	19860604	EP 1985-308432	19851120 <--
	EP 183479	A3	19881026		
	EP 183479	B1	19910320		
	R: GB, IT, SE				
	JP 61123699	A	19860611	JP 1984-246485	19841120 <--
	JP 02060714	B	19901218		
	AU 8549954	A	19860814	AU 1985-49954	19851115 <--
	AU 562941	B2	19870625		
	CA 1282761	C	19910409	CA 1985-495444	19851115 <--
	CN 85109744	A	19861105	CN 1985-109744	19851118 <--
	CN 1007069	B	19900307		
PRAI	JP 1984-246485	A	19841120		
IT	108-11-2				
	RL: USES (Uses)				
	(flotation agent, for deashing of coal-water slurries)				
RN	108-11-2	CAPLUS			
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				

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L16 ANSWER 31 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1986:482080 CAPLUS
 DN 105:82080
 OREF 105:13281a,13284a
 TI Beneficiating coal employing low amounts of additives
 IN McGarry, Phillip E.; Herman, David E.
 PA Standard Oil Co., USA
 SO S. African, 28 pp.
 CODEN: SFXXAB
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	ZA 8502350	A	19860129	ZA 1985-2350	19850328 <--
	EP 197164	A1	19861015	EP 1985-103961	19850402 <--
	R: AT, BE, DE, FR, GB, IT, NL, SE				
	JP 61234961	A	19861020	JP 1985-74298	19850410 <--
PRAI	ZA 1985-2350		19850328		
IT	108-11-2				
	RL: USES (Uses)				
	(frothing agent, for recovery of polymerization-treated upgraded coal)				
RN	108-11-2	CAPLUS			
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				



L16 ANSWER 32 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1986:112711 CAPLUS
 DN 104:112711
 OREF 104:17831a,17834a
 TI Control of froth flotation separation
 IN Wasson, George E.
 PA Conoco, Inc., USA
 SO U.S., 5 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4559134	A	19851217	US 1984-676897	19841130 <--
PRAI	US 1984-676897		19841130		
IT	108-11-2				
	RL: USES (Uses) (frothing agents, for deashing of coal)				
RN	108-11-2 CAPLUS				
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				



RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 33 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1985:526368 CAPLUS
 DN 103:126368
 OREF 103:20187a,20190a
 TI Polyorganosiloxane collectors in the beneficiation of fine coal by
 froth flotation
 IN Ng, Fook L.; Higgs, Bruce S.
 PA Dow Corning Corp., USA
 SO U.S., 9 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4532032	A	19850730	US 1984-615433	19840530 <--
	ZA 8503129	A	19860226	ZA 1985-3129	19850426 <--
	CA 1226381	A1	19870901	CA 1985-480998	19850508 <--
	EP 164237	A2	19851211	EP 1985-303582	19850521 <--
	EP 164237	A3	19880107		
	EP 164237	B1	19910306		
	R: DE, FR, GB				
	AU 8543124	A	19851205	AU 1985-43124	19850529 <--

	AU 570565	B2	19880317		
	JP 60261563	A	19851224	JP 1985-116308	19850529 <--
	JP 01046179	B	19891006		
PRAI	US 1984-615433	A	19840530		
IT	108-11-2				
	RL: USES (Uses)				
	(frother, for flotation of coal with siloxane collectors)				
RN	108-11-2	CAPLUS			
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				



RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 34 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1985:439527 CAPLUS
DN 103:39527
OREF 103:6397a,6400a
TI Coal cleaning by froth flotation
AU Han, C.
CS Ames Lab., Ames, IA, USA
SO Report (1984), IS-T-1091; Order No. DE85005624, 240 pp. Avail.: NTIS
From: Energy Res. Abstr. 1985, 10(7), Abstr. No. 10913
DT Report
LA English
IT 108-11-2
RL: USES (Uses)
(frothing agents, for flotation of Iowa coal)
RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 35 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1985:439526 CAPLUS
DN 103:39526
OREF 103:6397a,6400a
TI Coal cleaning by flotation
AU Bennett, A. J. R.; Bustamante, H.; Shibaoka, M.; Telfer, A.; Warren, L. J.; Woods, G.
CS Dev. Demonstration Council., Natl. Energy Res., Canberra, Australia
SO Report (1983), NERDDP-EG-83-149, 149 pp. Avail.: Natl. Energy Res., Dev. Demonstr. Council., Canberra, Aust.
From: Energy Res. Abstr. 1985, 10(7), Abstr. No. 10917
DT Report
LA English
IT 108-11-2
RL: USES (Uses)
(frothing agent, coal flotation with, effect of grain size and surfactants on)

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RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 36 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1985:424653 CAPLUS
DN 103:24653
OREF 103:4049a,4052a
TI Selection of reagents for optimization of fine coal flotation
AU Mishra, S. K.; Lim, S. A.; McIlvenny, J.
CS Technical Cent., Dow Chemical (Australia) Ltd., Altona, 3018, Australia
SO Proc. Symp. "Improv. Froth Flotation Coal" (1983), 68-86. Editor(s):
Membrey, Wesley B. Publisher: Aust. Coal Ind. Res. Lab., Maitland,
Australia.
CODEN: 53VBAO
DT Conference
LA English
IT 108-11-2
RL: USES (Uses)
(coal flotation agent, performance of)
RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 37 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1984:88364 CAPLUS
DN 100:88364
OREF 100:13379a,13382a
TI Fine coal flotation with alcohol: dialkyl sulfosuccinate frothing systems
AU Strydom, P. J.; Spitzer, D. P.; Goodman, R. M.
CS Am. Cyanamid Co., Stamford, CT, 06904, USA
SO Colloids and Surfaces (1983), 8(2), 175-85
CODEN: COSUD3; ISSN: 0166-6622
DT Journal
LA English
IT 108-11-2
RL: USES (Uses)
(froth flotation agents, for coal)
RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 38 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1983:218744 CAPLUS
 DN 98:218744
 OREF 98:33233a,33236a
 TI Concentrating the exinite group macerals from coal by froth flotation
 IN Laros, Timothy J.; Pick, Richard D.
 PA Atlantic Richfield Co., USA
 SO U.S., 6 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4377473	A	19830322	US 1981-283755	19810716 <--
PRAI	US 1981-283755		19810716		
IT	108-11-2				
	RL: USES (Uses) (in exinite separation, from coal, by froth flotation)				
RN	108-11-2	CAPLUS			
CN	2-Pentanol, 4-methyl- (CA INDEX NAME)				



RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

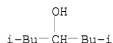
L16 ANSWER 39 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1983:19170 CAPLUS
 DN 98:19170
 OREF 98:3053a,3056a
 TI Interfacial phenomena in coal flotation systems
 AU Kelebek, S.; Salman, T.; Smith, G. W.
 CS McGill Univ., Montreal, QC, Can.
 SO Coal: Phoenix '80s [Eighties], Proc. CIC Coal Symp., 64th (1981),
 Volume 1, 145-52. Editor(s): Al Taweel, Adel M. Publisher: Can. Soc.
 Chem. Eng., Ottawa, Ont.
 CODEN: 48XQAZ
 DT Conference
 LA English
 IT 108-11-2
 RL: USES (Uses)
 (frothers, effect of, in interfacial behavior in coal flotation)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



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AN 1982:107008 CAPLUS
DN 96:107008
OREF 96:17565a,17568a
TI Froth promoter for coal flotation
IN Meyer, Wilfred C.
PA Dow Chemical Co., USA
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4308133	A	19811229	US 1980-161244	19800620 <--
PRAI	US 1980-161244		19800620		
IT	108-82-7				
	RL: USES (Uses)				
	(foaming agent, for coal flotation)				
RN	108-82-7 CAPLUS				
CN	4-Heptanol, 2,6-dimethyl-				(CA INDEX NAME)



RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 41 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1979:509842 CAPLUS
DN 91:109842
OREF 91:17715a,17718a
TI New developments in [froth] flotation in the USA
AU Halvorsen, W. J.
CS Pittsburgh, PA, USA
SO Aufbereitungs Technik (1960-1989) (1979), 20(5), 243-6
CODEN: AUFTAK; ISSN: 0004-783X
DT Journal
LA German
IT 108-11-2
RL: USES (Uses)
(in coal flotation)
RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 42 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1978:123570 CAPLUS
DN 88:123570
OREF 88:19391a,19394a
TI Floatability of coal and pyrite
AU Le, H. V.

CS Ames Lab., Ames, IA, USA
 SO Report (1977), IS-T-779, 112 pp. Avail.: NTIS
 From: Energy Res. Abstr. 1977, 2(23), Abstr. No. 55553
 DT Report
 LA English
 IT 108-11-2
 RL: USES (Uses)
 (frothing agent, in coal flotation, for pyrite separation)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 43 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1974:452045 CAPLUS
 DN 81:52045
 OREF 81:8307a,8310a
 TI Desulfurization of coal by froth flotation
 AU Baker, A. F.; Miller, K. J.; Deurbrouck, A. W.
 CS Fr.
 SO Int. Coal Prep. Congr., [Proc.], 6th (1973), Meeting Date 1973, 27E, 28
 pp. Publisher: Cent. Etud. Rech. Charbonnages Fr., Paris, Fr.
 CODEN: 28CXAV
 DT Conference
 LA English
 IT 108-11-2
 RL: USES (Uses)
 (flotation agent, for pyrite separation, from coal)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 44 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1974:439676 CAPLUS
 DN 81:39676
 OREF 81:6349a,6352a
 TI Flotation of pyrite from coal
 IN Miller, Kenneth J.
 PA United States Dept. of the Interior
 SO U.S., 4 pp.
 CODEN: USXXAM
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3807557	A	19740430	US 1972-279903	19720811 <--
PRAI	US 1972-279903		19720811		
IT	108-11-2				

RL: USES (Uses)
 (in pyrite removal, from coal, by flotation)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 45 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1974:61949 CAPLUS
 DN 80:61949
 OREF 80:10045a,10048a
 TI Flotation of pyrite from coal. Pilot plant study
 AU Miller, Kenneth J.
 CS Pittsburgh Energy Res. Cent., Bur. Mines, Pittsburgh, PA, USA
 SO U. S., Bur. Mines, Rep. Invest. (1973), RI 7822, 15 pp.
 CODEN: XBMIA6
 DT Report
 LA English
 IT 108-11-2
 RL: USES (Uses)
 (in flotation, of pyrite from coal)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



L16 ANSWER 46 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
 AN 1966:471482 CAPLUS
 DN 65:71482
 OREF 65:13277g-h
 TI Reclaiming magnetite in dense-medium circuits by froth flotation
 AU Cavallaro, J. A.; Deurbrouck, A. W.
 CS U.S. Bur. of Mines, Pittsburgh, PA
 SO Bureau of Mines Report of Investigations (1966), No. 6821, 11 pp.
 CODEN: XBMIA6; ISSN: 1066-5552
 DT Journal
 LA English
 IT 108-11-2P, 2-Pentanol, 4-methyl-
 RL: PREP (Preparation)
 (in magnetite flotation from coal cleaning heavy media)
 RN 108-11-2 CAPLUS
 CN 2-Pentanol, 4-methyl- (CA INDEX NAME)



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L16 ANSWER 47 OF 47 CAPLUS COPYRIGHT 2009 ACS on STN
AN 1960:121693 CAPLUS
DN 54:121693
OREF 54:23261d-e
TI Froth flotation of coal with methylisobutylcarbinol
AU Beckers, Joseph Maria Hubert; Meerman, Pieter Gerard
SO Intern. Coal Preparation Congr., 3rd, Brussels-Liege (1958), (E1), 486-92
DT Journal
LA Unavailable
IT 108-11-2P, 2-Pentanol, 4-methyl-
RL: PREP (Preparation)
(mixture with gas oil in coal froth flotation
)
RN 108-11-2 CAPLUS
CN 2-Pentanol, 4-methyl- (CA INDEX NAME)

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Me-CH-Bu-i

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(FILE 'HOME' ENTERED AT 16:10:41 ON 14 MAY 2009)

FILE 'REGISTRY' ENTERED AT 16:11:29 ON 14 MAY 2009

L1 SCREEN 2051 AND 2127
L2 SCREEN 1838 OR 1929 OR 2026 OR 2022 OR 2016 OR 2009 OR 19
L3 STRUCTURE UPLOADED
L4 QUE L3 AND L1 NOT L2
L5 3 S L4
L6 114 S L4 FUL

FILE 'CAPLUS' ENTERED AT 16:13:50 ON 14 MAY 2009

L7 153 S L6
E FROTH+ALL/CT
L8 0 S (FROTH OR FLOTATION) AND L7
E FROTH FLOTATION+ALL/CT
L9 801 S FROTH FLOTATION AND COAL

FILE 'STNGUIDE' ENTERED AT 16:29:46 ON 14 MAY 2009

FILE 'REGISTRY' ENTERED AT 16:33:31 ON 14 MAY 2009

L10 SCREEN 1992 OR 2016 OR 2021 OR 2026 OR 1929 OR 1838
L11 STRUCTURE UPLOADED
L12 QUE L11 NOT L10
L13 6 S L12
L14 1367 S L12 FUL

FILE 'CAPLUS' ENTERED AT 16:34:18 ON 14 MAY 2009

L15 56 S L9 AND L14
L16 47 S L15 AND 1700-2002/PY

=> file stnguide

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

208.85

665.53

10/538,249

FILE 'STNGUIDE' ENTERED AT 16:37:32 ON 14 MAY 2009
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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: May 11, 2009 (20090511/UP).

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FILE 'REGISTRY' ENTERED AT 16:11:29 ON 14 MAY 2009

L1 SCREEN 2051 AND 2127
L2 SCREEN 1838 OR 1929 OR 2026 OR 2022 OR 2016 OR 2009 OR 19
L3 STRUCTURE UPLOADED
L4 QUE L3 AND L1 NOT L2
L5 3 S L4
L6 114 S L4 FUL

FILE 'CAPLUS' ENTERED AT 16:13:50 ON 14 MAY 2009

L7 153 S L6
E FROTH+ALL/CT
L8 0 S (FROTH OR FLOTATION) AND L7
E FROTH FLOTATION+ALL/CT
L9 801 S FROTH FLOTATION AND COAL

FILE 'STNGUIDE' ENTERED AT 16:29:46 ON 14 MAY 2009

FILE 'REGISTRY' ENTERED AT 16:33:31 ON 14 MAY 2009

L10 SCREEN 1992 OR 2016 OR 2021 OR 2026 OR 1929 OR 1838
L11 STRUCTURE UPLOADED
L12 QUE L11 NOT L10
L13 6 S L12
L14 1367 S L12 FUL

FILE 'CAPLUS' ENTERED AT 16:34:18 ON 14 MAY 2009

L15 56 S L9 AND L14
L16 47 S L15 AND 1700-2002/PY

FILE 'STNGUIDE' ENTERED AT 16:37:32 ON 14 MAY 2009

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.91

666.44

STN INTERNATIONAL LOGOFF AT 16:45:14 ON 14 MAY 2009